

### Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A method comprising:

measuring cumulative mesh network viability based upon packet loss information calculated from packets transmitted from at least one of a plurality of nodes, wherein the wireless network is an ad hoc wireless network and the packet loss is calculated by:  $\square$

$$P_{k+1} = P_k + (C - L - 1) \square$$

where  $P_k$  = total packet loss calculated in a previous period,  $P_{k+1}$  = total packet loss calculated in a current period,  $C$  = packet count in the current period, and  $L$  = packet count in the previous period.

2. (Canceled)

3. (Original) The method of claim 1 further comprising storing the packet loss information at the at least one server.

4. (Original) The method of claim 3 wherein said storing the packet loss information comprises network protocol processing a received packet upon receipt of the

received packet at the at least one server.

5. (Original) The method of claim 3 wherein said storing the received packet at the at least one server comprises processing the received packet at a time period subsequent to the arrival of the received packet at the server.

6. (Original) The method of claim 3 wherein said storing the received packet at the at least one server comprises associating an identifier with the received packet prior to processing the received packet.

7. (Original) The method of claim 3 wherein said storing the received packet at the at least one server further comprises comparing the packet with a plurality of previously received packets to determine whether a duplicate packet had been transmitted.

8. (Original) The method of claim 7 wherein the at least one server discards the received packet in response to detecting that the received packet is a duplicate packet that has been transmitted.

9. (Currently Amended) A wireless network comprising:  
a plurality of nodes configured to at least transmit packets in the wireless network;  
at least one server operably configured to calculate packet loss information in the

wireless network during packet transmission from at least one of the plurality of nodes such that overall mesh network viability of the wireless network is measured in the wireless network, wherein the wireless network is an ad hoc wireless network and the packet loss is calculated by: 
$$P_{k+1} = P_k + (C - L - 1) \square$$

where  $P_k$  = total packet loss calculated in a previous period,  $P_{k+1}$  = total packet loss calculated in a current period,  $C$  = packet count in the current period, and  $L$  = packet count in the previous period; and

a store for storing the packet loss information.

10. (Original) The wireless network of claim 9 wherein the store for storing the packet loss information is at the at least one server.

11. (Original) The wireless network of claim 9 wherein the store for storing the packet loss information is operably configured for access at a future period of time.

12. (Original) The wireless network of claim 9 wherein the store for storing the packet loss information is operably configured for processing out-of-order packets.

13. (Original) The wireless network of claim 9 wherein the server discards the packets.

14-30. (Canceled)

31. (Original) The method of claim 2 wherein mesh network viability is the cumulative packet loss in the ad hoc wireless network.

32. (Original) The method of claim 3 where said storing the packet loss information at the at least one server is for access at a future period of time.